Comparisons of Job Characteristics

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) **Associated Occupation: Petroleum Engineers (17-2171)**

Compare Knowledge Compare Skills **Compare Abilities** Compare Detailed Work Activities Compare Tools and Technologies

| << | Focus occupation element is much lower |
|----|--|
| < | Focus occupation element is lower |
| 0 | Focus occupation element is at a similar level |
| > | Focus occupation element is at a higher level |
| >> | Focus occupation element is at a much higher level |

Knowledge

Similarity of Focus Occupation to Associated Occupation: 31

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Petroleum Engineers (17-2171)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | |
|---|---------------------------------------|--------------------------------------|---------------------------------|--------------------------------|---|
| Engineering and Technology | 5.7 | 22.0 | 8.3 | << | Extensive education and/or training may be required |
| Mathematics | 9.2 | 17.4 | 10.6 | << | Extensive education and/or training may be required |
| Physics | 4.3 | 15.3 | 3.6 | << | Extensive education and/or training may be required |
| Computers and Electronics | 8.4 | 14.2 | 7.9 | << | Extensive education and/or training may be required |
| Administration and Management | 8.4 | 12.9 | 14.0 | 0 | Current knowledge level may be sufficient |
| Chemistry | 4.8 | 11.6 | 5.0 | << | Extensive education and/or training may be required |
| Economics and Accounting | 4.4 | 11.2 | 4.2 | << | Extensive education and/or training may be required |
| Design | 5.2 | 9.7 | 6.5 | << | Extensive education and/or training may be required |
| Geography | 3.9 | 9.4 | 1.6 | << | Extensive education and/or training may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Skills | Similarity of Focus Occupation to Associated Occupation: 79 | | | | | | |
|---|---|--------------------------------------|---------------------------------|--------------------------------|--|--|--|
| Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Petroleum Engineers (17-2171) | | | | | | | |
| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | | | |

| Reading Comprehension | 10.7 | 15.5 | 11.5 | << | Extensive development of skills in this area may be required |
|-----------------------------------|------|------|------|----|--|
| Complex Problem Solving | 9.1 | 13.5 | 10.7 | < | A higher skill level may be required |
| Writing | 9.2 | 13.5 | 10.3 | << | Extensive development of skills in this area may be required |
| Monitoring | 9.9 | 12.8 | 10.6 | < | A higher skill level may be required |
| Coordination | 9.1 | 12.0 | 12.0 | 0 | Current skill level may be sufficient |
| Time Management | 8.9 | 11.8 | 12.6 | 0 | Current skill level may be sufficient |
| Systems Evaluation | 6.4 | 11.6 | 8.3 | << | Extensive development of skills in this area may be required |
| Systems Analysis | 6.5 | 11.5 | 8.5 | << | Extensive development of skills in this area may be required |
| Management of Personnel Resources | 6.9 | 10.7 | 11.8 | > | Skill level is likely sufficient |
| Science | 4.5 | 10.5 | 3.4 | << | Extensive development of skills in this area may be required |
| Mathematics | 6.2 | 10.1 | 5.8 | << | Extensive development of skills in this area may be required |
| Negotiation | 6.8 | 9.7 | 9.8 | 0 | Current skill level may be sufficient |
| Management of Material Resources | 3.7 | 7.3 | 5.8 | < | A higher skill level may be required |
| Management of Financial Resources | 3.3 | 7.1 | 5.6 | < | A higher skill level may be required |
| Technology Design | 2.6 | 5.4 | 2.2 | << | Extensive development of skills in this area may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Petroleum Engineers (17-2171)

| Associated Occupation's Key Abilities Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | |
|---|---------------------------------------|--------------------------------------|---------------------------------|--------------------------------|--|
| Written Comprehension | 11.0 | 15.7 | 12.2 | << | Extensive improvement in abilities may be required |
| Written Expression | 9.8 | 14.8 | 11.0 | << | Extensive improvement in abilities may be required |
| Inductive Reasoning | 10.2 | 14.2 | 10.7 | << | Extensive improvement in abilities may be required |
| Problem Sensitivity | 11.1 | 13.9 | 12.1 | < | Some improvement in abilities may be required |
| Information Ordering | 9.9 | 12.9 | 9.7 | << | Extensive improvement in abilities may be required |
| Category Flexibility | 9.0 | 12.6 | 8.8 | << | Extensive improvement in abilities may be required |
| Mathematical Reasoning | 6.3 | 11.7 | 7.1 | << | Extensive improvement in abilities may be required |
| Fluency of Ideas | 7.6 | 11.1 | 9.1 | < | Some improvement in abilities may be required |
| Time Sharing | 6.6 | 8.5 | 7.1 | < | Some improvement in abilities may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 50

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Petroleum Engineers (17-2171)

| Work Activities | Exclusivity of Activity |
|--|-------------------------|
| Assign work to staff or employees | 30 |
| Communicate technical information | 4 |
| Direct and coordinate activities of workers or staff | 3 |
| Prepare reports | 8 |
| Read blueprints | 10 |
| Read technical drawings | 7 |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 86

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Petroleum Engineers (17-2171)

| Tools and Technologies | Exclusivity |
|--|-------------|
| Business function specific software | 1 |
| Computer data input devices | 2 |
| Computers | 1 |
| Content authoring and editing software | 1 |
| Data management and query software | 1 |
| Finance accounting and enterprise resource planning ERP software | 2 |
| Information exchange software | 1 |
| Network applications software | 1 |

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.